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DATE: Thursday, May 04, 2006

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| <input type="checkbox"/>  | L3              | L2 and transformation efficiency  | 11               |
| <input type="checkbox"/>  | L2              | (F adj1 genetic material or F adj1 episome) and (coli or bacterium or bacteria) | 95               |
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1. Document ID: US 7029847 B2

Using default format because multiple data bases are involved.

L3: Entry 1 of 11

File: USPT

Apr 18, 2006

US-PAT-NO: 7029847

DOCUMENT-IDENTIFIER: US 7029847 B2

TITLE: Methods and compositions for interaction trap assays

DATE-ISSUED: April 18, 2006

PRIOR-PUBLICATION:

|                   |                 |
|-------------------|-----------------|
| DOC-ID            | DATE            |
| US 20020119498 A1 | August 29, 2002 |

INVENTOR-INFORMATION:

| NAME            | CITY       | STATE | ZIP CODE | COUNTRY |
|-----------------|------------|-------|----------|---------|
| Joung; J. Keith | Winchester | MA    |          | US      |
| Miller; Jeffrey | Cambridge  | MA    |          | US      |
| Pabo; Carl O.   | Newton     | MA    |          | US      |

US-CL-CURRENT: 435/6; 435/455, 435/7.1, 435/7.2, 435/DIG.1, 435/DIG.2, 435/DIG.3

|      |       |          |       |        |                |      |           |           |             |        |      |         |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMPC | Drawn D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

2. Document ID: US 6914123 B2

L3: Entry 2 of 11

File: USPT

Jul 5, 2005

US-PAT-NO: 6914123

DOCUMENT-IDENTIFIER: US 6914123 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Hairpin peptides with a novel structural motif and methods relating thereto

DATE-ISSUED: July 5, 2005

INVENTOR-INFORMATION:

| NAME                    | CITY          | STATE | ZIP CODE | COUNTRY |
|-------------------------|---------------|-------|----------|---------|
| Cochran; Andrea G.      | San Francisco | CA    |          |         |
| Starovasnik; Melissa A. | San Francisco | CA    |          |         |

Skelton; Nicholas

San Mateo

CA

US-CL-CURRENT: 530/326; 435/7.1, 530/300, 530/324, 530/325, 530/327

## ABSTRACT:

The invention is directed to a model system for structure-activity relationship analysis of peptide or protein molecules involved in important biological processes. Provided by the invention are combinatorial peptide libraries comprising peptides with a novel "tryptophan zipper" scaffold (trpzip) that forms stable .beta.-hairpin structure in solution. Methods of selecting and using such scaffold are provided herein, which are useful for mimicking native protein structures and interactions and designing therapeutic agents. Thus, the invention has profound utility for biological studies and drug development.

6 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

|      |       |          |       |        |                |      |           |           |             |        |      |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawn D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

 3. Document ID: US 6709861 B2

L3: Entry 3 of 11

File: USPT

Mar 23, 2004

US-PAT-NO: 6709861

DOCUMENT-IDENTIFIER: US 6709861 B2

TITLE: Cloning vectors and vector components

DATE-ISSUED: March 23, 2004

## INVENTOR-INFORMATION:

| NAME             | CITY      | STATE | ZIP CODE | COUNTRY |
|------------------|-----------|-------|----------|---------|
| Mead; David Alan | Middleton | WI    |          |         |
| Godiska; Ronald  | Verona    | WI    |          |         |

US-CL-CURRENT: 435/320.1; 536/23.1

## ABSTRACT:

The present invention relates to systems, methods, and compositions for cloning and sequencing insert nucleic acid sequences. In particular, the present invention provides vectors and vector components configured for multiplex cloning, multiplex sequencing, and fixed orientation cloning. The present invention also provides vectors and vector components that allow insert sequences that are deleterious to a host cell to be successfully cloned.

15 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 16

|      |       |          |       |        |                |      |           |           |             |        |      |         |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KUMC | Drawn D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

4. Document ID: US 6709854 B2

L3: Entry 4 of 11

File: USPT

Mar 23, 2004

US-PAT-NO: 6709854

DOCUMENT-IDENTIFIER: US 6709854 B2

TITLE: Method capable of increasing competency of bacterial cell transformation

DATE-ISSUED: March 23, 2004

INVENTOR-INFORMATION:

| NAME                    | CITY         | STATE | ZIP CODE | COUNTRY |
|-------------------------|--------------|-------|----------|---------|
| Donahue, Jr.; Robert A. | Falls Church | VA    |          |         |
| Bebee; Robert L.        | Gaithersburg | MD    |          |         |

US-CL-CURRENT: 435/252.33; 435/252.8

ABSTRACT:

The invention concerns bacterial strains capable of enhanced transformation efficiencies that are produced by the introduction of the F' genetic material. The invention also concerns processes for producing transformable competent bacteria with enhanced transformation efficiencies.

17 Claims, 0 Drawing figures

Exemplary Claim Number: 1

|      |       |          |       |        |                |      |           |           |             |        |      |         |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KUMC | Drawn D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

5. Document ID: US 6274369 B1

L3: Entry 5 of 11

File: USPT

Aug 14, 2001

US-PAT-NO: 6274369

DOCUMENT-IDENTIFIER: US 6274369 B1

TITLE: Method capable of increasing competency of bacterial cell transformation

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

| NAME                    | CITY         | STATE | ZIP CODE | COUNTRY |
|-------------------------|--------------|-------|----------|---------|
| Donahue, Jr.; Robert A. | Falls Church | VA    |          |         |
| Bebee; Robert L.        | Gaithersburg | MD    |          |         |

US-CL-CURRENT: 435/252.33; 435/476, 435/488

## ABSTRACT:

The invention concerns bacterial strains capable of enhanced transformation efficiencies that are produced by the introduction of the F' genetic material. The invention also concerns processes for producing transformable competent bacteria with enhanced transformation efficiencies.

14 Claims, 0 Drawing figures

Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

6. Document ID: US 5985644 A

L3: Entry 6 of 11

File: USPT

Nov 16, 1999

US-PAT-NO: 5985644

DOCUMENT-IDENTIFIER: US 5985644 A

TITLE: Bacterial catabolism of chitin

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

| NAME              | CITY        | STATE | ZIP CODE | COUNTRY |
|-------------------|-------------|-------|----------|---------|
| Roseman; Saul     | Baltimore   | MD    |          |         |
| Bassler; Bonnie   | Princeton   | NJ    |          |         |
| Keyhani; Nemat O. | Balitmore   | MD    |          |         |
| Chitlaru; Edith   | Rehovot     |       |          | IL      |
| Yu; Charles       | Lutherville | MD    |          |         |

US-CL-CURRENT: 435/252.3; 435/200, 435/209, 435/320.1, 435/909, 536/23.2, 536/23.7

## ABSTRACT:

Three genes involved in the catabolism of chitin in *Vibrio furnissii*: *endI* encodes periplasmic chitodextrinase, *exoI* encodes periplasmic .beta.-N-acetylglucosaminidase, and *exoII* encodes aryl .beta.-N-acetylglucosaminidase are provided. The complete nucleotide sequence for each of the three genes and the complete amino acid for the corresponding enzymes are demonstrated along with host cells capable of expressing the recombinant enzymes. The present invention also describes four specific strains of *V. furnissii* having deletions in genes involved in the catabolic pathway of chitin and a process for the production of chitin oligosaccharides.

6 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

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7. Document ID: US 5792647 A

L3: Entry 7 of 11

File: USPT

Aug 11, 1998

US-PAT-NO: 5792647

DOCUMENT-IDENTIFIER: US 5792647 A

TITLE: Bacterial catabolism of chitin

DATE-ISSUED: August 11, 1998

## INVENTOR-INFORMATION:

| NAME              | CITY        | STATE | ZIP CODE | COUNTRY |
|-------------------|-------------|-------|----------|---------|
| Roseman; Saul     | Baltimore   | MD    |          |         |
| Bassler; Bonnie   | Princeton   | NJ    |          |         |
| Keyhani; Nemat O. | Baltimore   | MD    |          |         |
| Chitlaru; Edith   | Rehovot     |       |          | IL      |
| Rowe; Chris       | Timonium    | MD    |          |         |
| Yu; Charles       | Lutherville | MD    |          |         |

US-CL-CURRENT: 435/252.3; 435/209, 435/320.1, 435/71.2, 435/909, 536/23.2

## ABSTRACT:

The present invention reveals the cloning of four genes involved in the catabolism of chitin in *Vibrio furnissii*: endI encodes periplasmic chitodextrinase, exoI encodes periplasmic .beta.-N-acetylglucosaminidase, exoII encodes aryl .beta.-N-acetyl-glucosaminidase and chiA encodes extracellular chitinase. The complete nucleotide sequence for each of the four genes and the complete amino acid for the corresponding enzymes are demonstrated along with host cells capable of expressing the recombinant enzymes. The present invention also describes four specific strains of *V. furnissii* having deletions in genes involved in the catabolic pathway of chitin and a process for the production of chitin oligosaccharides.

4 Claims, 7 Drawing figures

Exemplary Claim Number: 3

Number of Drawing Sheets: 7

|      |       |          |       |        |                |      |           |           |             |        |      |         |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMPC | Drawn D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

 8. Document ID: US 5707841 A

L3: Entry 8 of 11

File: USPT

Jan 13, 1998

US-PAT-NO: 5707841

DOCUMENT-IDENTIFIER: US 5707841 A

TITLE: Process of producing highly transformable bacterial cells and cells produced thereby

DATE-ISSUED: January 13, 1998

## INVENTOR-INFORMATION:

|                  |           |       |          |         |
|------------------|-----------|-------|----------|---------|
| NAME             | CITY      | STATE | ZIP CODE | COUNTRY |
| Greener; Alan L. | San Diego | CA    |          |         |

US-CL-CURRENT: 435/488; 435/252.33, 435/252.8

## ABSTRACT:

The invention provided herein includes gram negative bacteria cells containing a gene encoding an enzyme with carbohydrate degrading activity that had been rendered competent to transformation. Carbohydrate degrading enzymes of interest for use in the invention include alpha-amylase. The competent cells of the subject invention may be frozen so as to provide for prolonged storage. Other aspects of the invention include methods for rendering gram negative bacterial cells, such as E. coli cells competent to transformation. These methods involve the step of transferring a gene encoding an enzyme with carbohydrate degrading activity into E. coli cells and subsequently rendering the cells competent using any of a variety of competency inducing procedures.

13 Claims, 0 Drawing figures

Exemplary Claim Number: 1

|                      |                       |                          |                       |                        |                                |                      |                           |                           |                             |                        |                      |                          |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|
| <a href="#">Full</a> | <a href="#">Title</a> | <a href="#">Citation</a> | <a href="#">Front</a> | <a href="#">Review</a> | <a href="#">Classification</a> | <a href="#">Date</a> | <a href="#">Reference</a> | <a href="#">Sequences</a> | <a href="#">Attachments</a> | <a href="#">Claims</a> | <a href="#">KWMC</a> | <a href="#">Drawn D.</a> |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|

 9. Document ID: US 5512468 A

L3: Entry 9 of 11

File: USPT

Apr 30, 1996

US-PAT-NO: 5512468

DOCUMENT-IDENTIFIER: US 5512468 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process of producing highly transformable bacterial cells and cells produced thereby

DATE-ISSUED: April 30, 1996

## INVENTOR-INFORMATION:

|                  |           |       |          |         |
|------------------|-----------|-------|----------|---------|
| NAME             | CITY      | STATE | ZIP CODE | COUNTRY |
| Greener; Alan L. | San Diego | CA    |          |         |

US-CL-CURRENT: 435/488; 435/252.33, 435/252.8

## ABSTRACT:

The invention provided herein includes gram negative bacteria cells containing a gene encoding an enzyme with carbohydrate degrading activity that had been rendered competent to transformation. Carbohydrate degrading enzymes of interest for use in the invention include alpha-amylase. The competent cells of the subject invention may be frozen so as to provide for prolonged storage.

Other aspects of the invention include methods for rendering gram negative bacterial cells, such as E. coli cells competent to transformation. These methods

involve the step of transferring a gene encoding an enzyme with carbohydrate degrading activity into E. coli cells and subsequently rendering the cells competent using any of a variety of competency inducing procedures.

11 Claims, 0 Drawing figures

Exemplary Claim Number: 1

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10. Document ID: WO 9728248 A1

L3: Entry 10 of 11

File: EPAB

Aug 7, 1997

PUB-NO: WO009728248A1

DOCUMENT-IDENTIFIER: WO 9728248 A1

TITLE: METHOD CAPABLE OF INCREASING COMPETENCY OF BACTERIAL CELL TRANSFORMATION

PUBN-DATE: August 7, 1997

INVENTOR-INFORMATION:

| NAME                 | COUNTRY |
|----------------------|---------|
| DONAHUE, ROBERT A JR | US      |
| BEBEE, ROBERT L      | US      |

INT-CL (IPC): C12 N 1/21; C12 N 15/10

EUR-CL (EPC): C12N001/20; C12N015/10

ABSTRACT:

CHG DATE=19990617 STATUS=O>The invention concerns bacterial strains capable of enhanced transformation efficiencies that are produced by the introduction of the F' genetic material. The invention also concerns processes for producing transformable competent bacteria with enhanced transformation efficiencies.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D.](#)

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11. Document ID: WO 9728248 A1, AU 9722575 A, EP 877794 A1, US 6274369 B1, US 20010046698 A1, JP 2002502232 W, US 6709854 B2, US 20040152184 A1

L3: Entry 11 of 11

File: DWPI

Aug 7, 1997

DERWENT-ACC-NO: 1997-402602

DERWENT-WEEK: 200455

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TITLE: Bacterium containing F' episome material to increase transformation efficiency - particularly Escherichia coli, for generation of cDNA libraries or cloning

INVENTOR: BEBEE, R L; DONAHUE, R A

PRIORITY-DATA: 1997US-0790820 (January 30, 1997), 1996US-011040P (February 2, 1996), 2001US-0895202 (July 2, 2001), 2004US-0761278 (January 22, 2004)

## PATENT-FAMILY:

| PUB-NO                   | PUB-DATE          | LANGUAGE | PAGES | MAIN-IPC   |
|--------------------------|-------------------|----------|-------|------------|
| <u>WO 9728248 A1</u>     | August 7, 1997    | E        | 024   | C12N001/21 |
| <u>AU 9722575 A</u>      | August 22, 1997   |          | 000   | C12N001/21 |
| <u>EP 877794 A1</u>      | November 18, 1998 | E        | 000   | C12N001/21 |
| <u>US 6274369 B1</u>     | August 14, 2001   |          | 000   | C12N001/20 |
| <u>US 20010046698 A1</u> | November 29, 2001 |          | 000   | C12N001/21 |
| <u>JP 2002502232 W</u>   | January 22, 2002  |          | 022   | C12N001/21 |
| <u>US 6709854 B2</u>     | March 23, 2004    |          | 000   | C12N001/20 |
| <u>US 20040152184 A1</u> | August 5, 2004    |          | 000   | C12N001/21 |

INT-CL (IPC): C12 N 1/20; C12 N 1/21; C12 N 15/09; C12 N 15/10; C12 N 15/74; C12 N 1/21; C12 R 1:19; C12 N 1/21; C12 R 1:19; C12 N 1/21; C12 R 1:19; C12 N 1/21; C12 R 1:19

ABSTRACTED-PUB-NO: WO 9728248A

## BASIC-ABSTRACT:

Bacterium containing F' genetic material (A) and having increased transformation efficiency is new.

USE - The bacterium is used to generate cDNA libraries and to clone samples containing only small amounts of target sequence.

ADVANTAGE - The high transformation efficiency (particularly 10<sup>9</sup> or more transformants/ μg purified plasmid DNA) increases the probability that rare clones will be represented in plasmid libraries.

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| Terms                            | Documents |
|----------------------------------|-----------|
| L2 and transformation efficiency | 11        |

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